PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER 1) OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

HASEGAWA, Yoshiki Soei Patent and Law Firm, Ginza First Bldg. 10-6, Ginza 1-chome Chuo-ku, Tokyo 1040061 JAPON

Date of mailing (day/month/year) 15 September 2005 (15.09.2005)	
Applicant's or agent's file reference FP03-0384-00	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/000077	International filing date (day/month/year) 08 January 2004 (08.01.2004)
Applicant HAMAMATSU I	PHOTONICS K.K. et al

1.	Transmittal	of the	translation	ĹO	the applicant.	
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The International Bureau transmits herewith a copy of the English	ranslation of	the international pre	liminary report or
patentability (Chapter 1).			

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Masashi Honda
Facsimile No.+41 22 740 14 35	Facsimile No.+41 22 338 70 10

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP03-0384-00	FOR FURTHER ACTION	See item 4 below					
International application No. PCT/JP2004/000077	International filing date (day/month/year) Priority date (day/month/year) 08 January 2004 (08.01.2004) 08 January 2003 (08.01.2003)]						
International Patent Classification (IPC) or national classification and IPC 7 H01L 27/146, G01T 1/24, 1/20, H01L 31/02							
Applicant HAMAMATSU PHOTONICS K.K.							

	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).						
2.	This REPORT consists of a tota	of 5 sheets, including this cover sheet.					
	In the attached sheets, any refere to the international preliminary	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.					
3.	This report contains indications	relating to the following items:					
	Box No. I	Basis of the report					
	Box No. II	Priority					
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of invention					
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority					
		Date of issuance of this report 02 September 2005 (02.09.2005)					

Authorized officer

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PATENT COOPERATION TREATY

Pranslation From the INTERNATIONAL SEARCHING AUTHORITY PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing 13-04-2004 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FP03-0384-00 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/000077 08-01-2004 08-01-2003 International Patent Classification (IPC) or both national classification and IPC HO1L 27/146, G01T 1/24, 1/20, H01L 31/02 Applicant HAMAMATSU PHOTONICS K.K. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Date of completion of this opinion Authorized officer

Telephone No.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/000077

Box	No. I	Basis of the report	
1.	With	regard to the language, this opinion has been established on the basis of:	
		the international application in the language in which it was filed	
			, which is the language of a
		translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).	
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application a tion, this opinion has been established on the basis of:	and necessary to the claimed
	a.	type of material	
		a sequence listing	
		table(s) related to the sequence listing	
	b.	format of material	
		on paper	
		in electronic form	
	c.	time of filing/furnishing	
		contained in the international application as filed	
		filed together with the international application in electronic form	
		furnished subsequently to this Authority for the purposes of search	·
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relat furnished, the required statements that the information in the subsequent or additional copies is identical filed or does not go beyond the application as filed, as appropriate, were furnished.	ing thereto has been filed or all to that in the application as
4.	Addit	ional comments:	•
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/00007

Box	No. V Rea	soned state: tions and ex	ment	under Ru itions sup	ale 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement					
	Novelty (N)			Claims	1-11	YES
				Claims		- NO
	Inventive step	us)				
	mvenave step	(13)		Claims Claims	1-11	
				Clainis		_ NO
	Industrial appl	icability (IA)	Claims	1-11	
•				Claims		_ NO
2	Citations and expl	lanations:		•		
	Doc	ument	1:	JP	2002-359446 A (Hitachi, Ltd.), 13	
				De	cember 2002, entire text, fig. 1-35	
	Doc	ument	2:	JP	8-330469 A (Hitachi, Ltd.), 13	
٠				De	cember 1996, entire text, fig. 1-17	
	Doc	ument	3:	JP	6-347480 A (Nitto Denko Corp.), 22	
	•			De	cember 1994, entire text, fig. 1-5	•
	. Doc	ument	4:		2002/0038851 A1 (Kenji Kajiwara), 4	
					oril 2002, entire text, fig. 1-38	
				115	2002, cheffe text, fig. 1-30	
		The s			tions sot forth in allies 1 to 11	•
					tions set forth in claims 1 to 11 are	
					ed nor suggested in any of documents	
	1 t	o 4 ci	ite	d in	the international search report.	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2'004/000077

Box No. VI	Certain documents cited			
1. Certain pub	olished documents (Rule 43bis.1 and 70).10)		
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
EX	JP 2003-264280 A	19-09-2003	08-03-2002	
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2. Non-writte	n disclosures (Rule 43 <i>bis</i> .1 and 70.9) Kind of non-written disclosure			
	Kind of non-written disclosure	Date of non-written di (day/month/yea.	r) referring	of written disclosure to non-written disclosure day/month/year)
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